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To: [Meyer, John](#)
Subject: Wilcox Oil Company Superfund Site and ERT Field Work
Date: Monday, May 09, 2016 11:53:00 AM
Attachments: [QAPP project objectives and questions summarized 4-29-16.docx](#)

John, hopefully this does not come too late for any discussion. Please find listed some information related to the ERT involvement at the Wilcox Oil Company Superfund Site. Overall, I believe that the information gathered during the two field events is useful and does focus some of the additional sampling that is need to complete the investigation and risk assessments. I also believe that there were opportunities missed which would have provided more information and further reduced future sampling needs.

The summary is provided below with the attachment providing greater detail.

Geophysics:

Goals

1. Map the bedrock/reflective layer
2. Determine overburden
3. Determine underground obstructions

Accomplishments

The goals of the geophysics work were accomplished at about \$200K.

Information used to determine where overburden was significant for use of the ROST/CPT. Other locations would use direct push.

Opportunity for Improvement

The report was not finalized. Geophysics data could be used by the State and Tribal historic Offices to support the need for further review. It is part of the submittal package but listed as draft without revisions made based on previous review.

ROST/CPT

Goals

1. Map the waste's fluorescence signature.
2. Map the subsurface geology (CPT)
3. Delineate the LNAPL.
4. Identify Waste Streams and determine leachable nature.
5. Collect analytical data: metals, organics, PCB/Pesticides, HexChromium, Tetra Ethyl Lead
6. Presence/absence of ground water.
7. Overnight data interpretation such that the following day's work could be better planned.

Accomplishments

Primarily, the only goal addressed was 1 with 5, 6, and 7 completed to some extent. Estimated cost was \$325K.

Opportunity for Improvement

1. Overnight data interpretation was not as smooth as expected. Not all areas were fully delineated.
2. More analytical data representing each of the fluorescence ranges should have been collected (sampling with the lab was planned but not utilized fully).
3. No hex chromium, PCB/pesticides, or TEL samples collected. Data Gap Remains.
4. LNAPL data gap remains



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5. Waste characterization data gap remains.
6. Subsurface geology data gap remains. CPT removed due to preference for full fluorescence down to refusal.

Issues:

There were site issues that contributed to some of these goals not being met.

- Rain
- Loss of 1 week with ROST because machine was broken.

One big improvement for ERT is reporting. The reports are not as detailed and explanatory as they should be. Specifically, areas of improvement would be summary of site objectives, detailed descriptions of work completed in the field, and summary of work as it relates to accomplishing the project/site objectives.

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